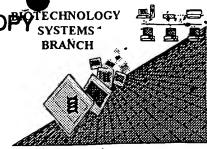


RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/930,440Source: 05/EDate Processed by STIC: 08/23/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/930, 440
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's représenting more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9__Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

AMC - Biotechnology Systems Branch - 06/04/2001

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/930,440

DATE: 08/23/2001
TIME: 16:49:26

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2 <110> APPLICANT: Betenbaugh et al.
      4 <120> TITLE OF INVENTION: Engineering Intracellular Sialylation Pathways
      6 <130> FILE REFERENCE: PF509P2
C--> 8 <140 > CURRENT APPLICATION NUMBER: US/09/930,440
C--> 9 <141> CURRENT FILING DATE: 2001-08-16
     11 <150> PRIOR APPLICATION NUMBER: 60/227,579
     12 <151> PRIOR FILING DATE: 2000-08-25
     14 <150> PRIOR APPLICATION NUMBER: 09/516,793
                                                                   Does Not Comply
     15 <151> PRIOR FILING DATE: 2000-03-01
                                                               Corrected Diskette Needed
     17 <150> PRIOR APPLICATION NUMBER: 60/169,624
     18 <151> PRIOR FILING DATE: 1999-12-08
                                                                See page 3087 and
page 4087
     20 <150> PRIOR APPLICATION NUMBER: 60/122,582
     21 <151> PRIOR FILING DATE: 1999-03-02
     23 <160> NUMBER OF SEQ ID NOS: 8
     25 <170> SOFTWARE: PatentIn Ver. 2.1
                                                  These types of errors may exist throughout the sequence listing. Please check subsequent sequences
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                                               10
     41 acg cca atg act gag aat gga gaa atc aac ttt tca gta att ggt cag
                                                                              96
     42 Thr Pro Met Thr Glu Asn Gly Glu Ile Asn Phe Ser Val Ile Gly Gln
                      20
      43
      45 tat gtg gat tat ctt gtg aaa gaa cag gga gtg aag aac att ttt gtg
                                                                              144
      46 Tyr Val Asp Tyr Leu Val Lys Glu Gln Gly Val Lys Asn Ile Phe Val
                 35
      49 aat ggc aca aca gga gaa ggc ctg tcc ctg agc gtc tca gag cgt cgc
                                                                              192
      50 Asn Gly Thr Thr Gly Glu Gly Leu Ser Leu Ser Val Ser Glu Arg Arg
                                   55
      51
      53 cag gtt gca gag gag tgg gtg aca aaa ggg aag gac aag ctg gat cag
                                                                              240
      54 Gln Val Ala Glu Glu Trp Val Thr Lys Gly Lys Asp Lys Leu Asp Gln
                                                    75
      57 gtg ata att cac gta gga gca ctg agc ttg aag gag tca cag gaa ctg
                                                                              288
      58 Val Ile Ile His Val Gly Ala Leu Ser Leu Lys Glu Ser Gln Glu Leu
      61 gcc caa cat gca gca gaa ata gga gct gat ggc atc gct gtc att gca
                                                                              336
      62 Ala Gln His Ala Ala Glu Ile Gly Ala Asp Gly Ile Ala Val Ile Ala
                                          105
                     100
      65 ccg ttc ttc ctc aag cca tgg acc aaa gat atc ctg att aat ttc cta
      66 Pro Phe Phe Leu Lys Pro Trp Thr Lys Asp Ile Leu Ile Asn Phe Leu
                                      120
                 115
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RAW SEQUENCE LISTING DATE: 08/23/2001 PATENT APPLICATION: US/09/930,440 TIME: 16:49:26

output set. N. (onto (output)
69 aag gaa gtg gct gct gcc gcc cct gcc ctg cca ttt tat tac tat cac 432
69 aag gaa gtg gct gct gcc gcc cct gcc ccg be be be be be be be be be figure for the figure of the figure for the figure of the
/1 130 and att cat act gag gag ttg ttg gat 480
73 att cct gcc ttg aca ggg gca aag att cgc gcc gas
75 145
77 ggg att ctg gat dag att ctc dec tes our span ggg att ctg gat dag att ctc dec tes our span ggg att ctg gat dag att ctc dec tes our span ggg att ctg gat dag att ctc dec tes our span ggg att ctg gat dag att ctg gat dag att ctg gat att ctg gat dag att ctg gat att ctg gat att ctg gat att ctg gat dag att ctg gat att ctg
1/5
79 the gag can tot get gat cag aat cgc cag caa 570
81 aca gat ctc tta gac tte ggg cad ege gen gan Asn Arg Gln Gln 82 Thr Asp Leu Leu Asp Phe Gly Gln Cys Val Asp Gln Asn Arg Gln Gln
100
of the state of th
85 cag tit get tie eit tit ggg geg gat gag odd 199 86 Gln Phe Ala Phe Leu Phe Gly Val Asp Glu Gln Leu Leu Ser Ala Leu
or and are are are are are are the grater are are are the original or are are are are are are are are are ar
89 gtg atg gga gca act gga gca gtg ggc age cos son 90 Val Met Gly Ala Thr Gly Ala Val Gly Ser Phe Val Ser Arg Asp Leu
24 210
91 210 213 93 tca act ttg ttg tca aac tag gttttggagt gtcacagacc aaagccatca 723
94 Ser Thr Leu Leu Ser Asn
0.10
33 223 canada a constagação canada tecactação a aagecteca 783
109 ttcatttcac agattttttt giggagaaat ttctgettaa absolute 1203 111 aggaaaattg taattgatta attccatctg tetttaggag etataatatg tetteatttt 1263
117
117 dataccadae tytudedeye observed 1429 119 tgeteagtet aactetagaa tggatgettt tgaatteatt tegatg 1429
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124 <212> TYPE: PRT
125 <213> ORGANISM: Homo sapiens
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130 Thr Pro Met Thr Glu Asn Gly Glu He Ash Phe Sel val 120
132 Tyr Val Asp Tyr Leu Val Lys Glu Gin Giy Vai Lys Ash ite inc var
134 Asn Gly Thr Thr Gly Glu Gly Leu Ser Leu Ser val Sel Glu Alg Mig
55
136 Gln Val Ala Glu Glu Trp Val Thr Lys Gly Lys Asp Lys Bed Asp 300
70
137 65 138 Val Ile Ile His Val Gly Ala Leu Ser Leu Lys Glu Ser Gln Glu Leu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/930,440

DATE: 08/23/2001
TIME: 16:49:26

Output Sec. N: \ckr5\void2001\landsquare
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139 85 90 140 Ala Gln His Ala Ala Glu Ile Gly Ala Asp Gly Ile Ala Val Ile Ala
105
141 100 103 114 114 114 114 114 114 114 114 114 11
143 113
144 Lys Glu Val Ala Ala Ala Pro Ala Leu Pro Phe Tyr Tyr His
145 150
146 Ile Pro Ala Leu Thr Gly Val Lys Ile Arg Ala Glu Glu Leu Leu Asp
148 Gly Ile Leu Asp Lys Ile Pro Thr Phe Gln Gly Leu Lys Phe Ser Asp
149 165 170 175 175 175 175 175 175 175 175 175 175
150 Thr Asp Leu Leu Asp Phe Gly Gln Cys Val Asp Gln Asn Arg Gln Gln
151 180 185 190
152 Gln Phe Ala Phe Leu Phe Gly Val Asp Glu Gln Leu Leu Ser Ala Leu
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173 <223> OTHER INFORMATION: Xaa equals His or Tyr
175 \2207 FEMION.
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186 <221> NAME/KEY: Site
187 <222> LOCATION: (505)(507)
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193
195 and cas ccd tcc cdd ddc cdd ccd ccd add ccd cas cas cas cas cas cas cas
196 Gly Arg Pro Ser Arg Gly Arg Pro Pro Lys Leu Gln Arg Asn Ser Arg
197 20 25 30

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/930,440

DATE: 08/23/2001 TIME: 16:49:26

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	203	att	ctg	gcc	cgg	gga	ggc	agc	aaa	ggc	atc	ccc	ctg	aag	aac	att	aag -	192	
	204	Ile	Leu	Ala	Arg	ĞÎy	Gly		Lys	Gly	Ile	Pro		Lys	Asn	TTE	гàг		
	205		50					55					60				-+-	240	
	207	cac	ctg	gcg	ggg	gtc	ccg	ctc	att	ggc	tgg	gtc	ctg	cgt	gcg	gee	CLG	240	
			Leu	Ala	Gly	Val		Leu	TTE	GTA	Trp		ьeu	AIG	Ата	нта	80 Eeu		
	209	65					70			.	~++	75	202	430	cat	a t		288	
	211	gat.	tca	ggg	gcc	ttc	cag	agt	gta	Egg	yuu wal	cor	Thr	Agn	Hie	Asn	Glu	200	
		Asp	Ser	GLY	Ата	Phe 85	GIII	Ser	Val	111	90	Ser	1111	лэр	1113	95	O L u		,
	213	-++	~~~	22±	ata	gcc	222	caa	+++	aat		caa	att	cat	сσа		agt	336	
	212	Tlo	Clu	Acn	y Ly Val	Ala	Luc	Gln	Dhe	Glv	Δla	Gln	Val	His	Ara	Arq	Ser		
	217	шe	GIU	ASII	100	AIG	цуз	GIII	1110	105		01			110	5			
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	220	Ser	Glu	Val	Ser	Lys	Asp	Ser	Ser	Thr	Ser	Leu	Asp	Ala	Ile	Ile	Glu		12
	221			115		.1/			120	< U	rror	ee1	~	<u>125</u>					(406408)
	223	ťtt	ctt	aat	tat	yat	aat	gag	gkt	gac	att	gta	gga	aat	att	caa	gct	432	(406 408/
W>	224	Phe	Leu	Asn	Tyr	Xaa	Asn	G1u	_Xaa	Asp	Ile	Val	Gly	Asn	Ile	Gln	Ala		(-100
	225		130		V			135					140						•
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W>	228	Thr	Ser	Х́аа	Cys	Leu	His	Pro	Thr	Asp	Leu	Gln	Lys	Val	Ala	Glu	Met		
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			Phe	Arg		Ser	GLu	тте	GIN	ьуs 185	СТА	Val	AIG	GIU	190	1111	GIU		
	237				180			-a+			aat	cat	cora	caa		taa	σat	624	
	239	CCT	ctg	aat	tta	aat Asn	Dro	yc.	Luc	Ara	Dro	Δrα	Ara	Gln	Asp	Trp	Asp	V	
	240		Leu	195	Leu	ASII	PIU	АТа	200	пту	110	my	****9	205	p				
	241	aaa	паа		tat	даа	aat	ggc		ttt	tat	ttt	act		aqa	cat	ttg	672	
	243	Glv	Glu	Leu	Tvr	Glu	Asn	Glv	Ser	Phe	Tyr	Phe	Ala	Lys	Arg	His	Leu		
	245		210		-1-			215			*		220	-	_				
	247	ata			aat	tac	ttq	cag	ggt	gga	aaa	tgg	cat	act	acg	aaa	tgc	720	
	248	Ile	Ğlu	Met	Ğĺy	Tyr	Leu	Gln	Gly	Gly	Lys	Trp	His	Thr	Thr	Lys	Cys		
	249	225					230					235					240		
	251	qaq	ctg	gaa	cat	agt	gtg	gat	ata	gat	gtg	gat	att	gat	tgg	cct	att	768	
	252	Glu	Leu	Glu	His	Ser	Val	Asp	Ile	Asp			Ile	Asp	\mathtt{Trp}	Pro	Ile		
	253					245					250					255	:	016	
	255	gca	gag	caa	aga	gta	tta	aga	tat	ggc	tat	ttt	ggc	aaa	gag	aag	ctt	816	
			Glu	Gln		Val	Leu	Arg	Tyr	Gly	Tyr	Phe	GIY	Lys	GIU	ьys	ьeu		
	257			_	260				.	265		~~+	~~~	+~+	270		aat	864	
	259	aag	gaa	ata	aaa	ctt	ttg	gtt	tgc	aat Aar	4 L L	yat	gya cilw	Cue	T.An	Thr	Agn	004	
			GIU			Leu	ьeu	val	280		тте	ASP	СТУ	285		1111	11011		
	261		020	275		a+=	toa	aus			aaa	gaa	ata			tat	gat	912	
	203	gge	Cac	all	Lal	y La	LCa	994	guo	Juu		- Juu					J		

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/930,440 TIME

DATE: 08/23/2001 TIME: 16:49:26

									_		_ •			_	_	3	
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		Lys	Asp	Ala	Ile		IIe	Ser	Leu	Leu	гÀг	гĀг	ser	СТА	TTE	330 GIU	
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275	tta	aaa	ctg	gat	tgc	aaa	atg	gaa	gtc	agt	gta	tca	gac	aag	cta	gca	1056
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296	Phe	Ala	Glu	His	Ile	Cys	Leu	Leu	Met	Glu	Lys	Val	Asn	Asn	Ser	Cys	
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		0> F															
		1> N															
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316	<22	3> 0'	THER	INF	ORMA	TION	: Xa	a eq	uals	GLY	or	va⊥					
		0> F															
		1> N															
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		0> F															
		1> N															
325	<22	2> L	OCAT	ION:	(16	9)				a 1.		37a ³					
						TION	: Ха	a eq	uals	GLY	or	val					
328	<40	0> S	EQUE	NCE:	4												

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/930,440

DATE: 08/23/2001

440 TIME: 16:49:27

Input Set : A:\PF509p2--SeqList.txt

Output Set: N:\CRF3\08162001\1930440.raw

L:8 M:270 C: Current Application Number differs, Replaced Current Application Number

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

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 $L\!:\!228$ M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

 $L:345 \ M:341 \ W:$ (46) "n" or "Xaa" used, for SEQ ID#:4

L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4.

L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4